

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102215\
 Data File : BF082456.D
 Acq On : 22 Oct 2015 20:32
 Operator : UM/IZ
 Sample : G4087-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB15-03-16-16.5

Manual Integrations
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Quant Time: Oct 23 03:39:34 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 23 01:26:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	114736	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	449341	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	238678	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	439661	20.00	ng	-0.01
75) Chrysene-d12	13.97	240	315002	20.00	ng	-0.03
86) Perylene-d12	15.46	264	285655	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.37	112	784775	138.04	ng	0.01
7) Phenol-d6	6.42	99	1059147	143.16	ng	0.00
23) Nitrobenzene-d5	7.34	82	647684	96.80	ng	-0.01
41) 2,4,6-Tribromophenol	10.61	330	235243	105.10	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	1035672	71.96	ng	-0.01
78) Terphenyl-d14	12.89	244	1098858	92.44	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.07	128	145157	7.45	ng	99
37) 2-Methylnaphthalene	8.77	142	68350	5.06	ng	98
49) Dimethylphthalate	9.53	163	329506	19.61	ng	100
51) Acenaphthene	9.84	154	93451	6.97	ng	97
54) Dibenzofuran	10.01	168	110349	6.00	ng	96
57) Fluorene	10.35	166	157538	10.43	ng	99
70) Phenanthrene	11.33	178	1512737	70.19	ng	98
71) Anthracene	11.37	178	453850	20.44	ng	99
72) Carbazole	11.53	167	137339	6.78	ng	98
74) Fluoranthene	12.52	202	1163735	50.28	ng	97
77) Pyrene	12.74	202	1107503	59.24	ng	99
80) Benzo(a)anthracene	13.96	228	443156	27.04	ng	99
82) Chrysene	14.00	228	319876	18.52	ng	98
83) Bis(2-ethylhexyl)phthalate	13.94	149	27494	2.26	ng	# 98
85) Indeno(1,2,3-cd)pyrene	16.85	276	154650	11.27	ng	98
87) Benzo(b)fluoranthene	15.05	252	397252m	22.86	ng	
88) Benzo(k)fluoranthene	15.08	252	57807m	3.96	ng	
89) Benzo(a)pyrene	15.41	252	271702m	18.19	ng	
90) Dibenzo(a,h)anthracene	16.85	278	33023m	2.70	ng	
91) Benzo(a,h,i)perylene	17.26	276	142481	11.98	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

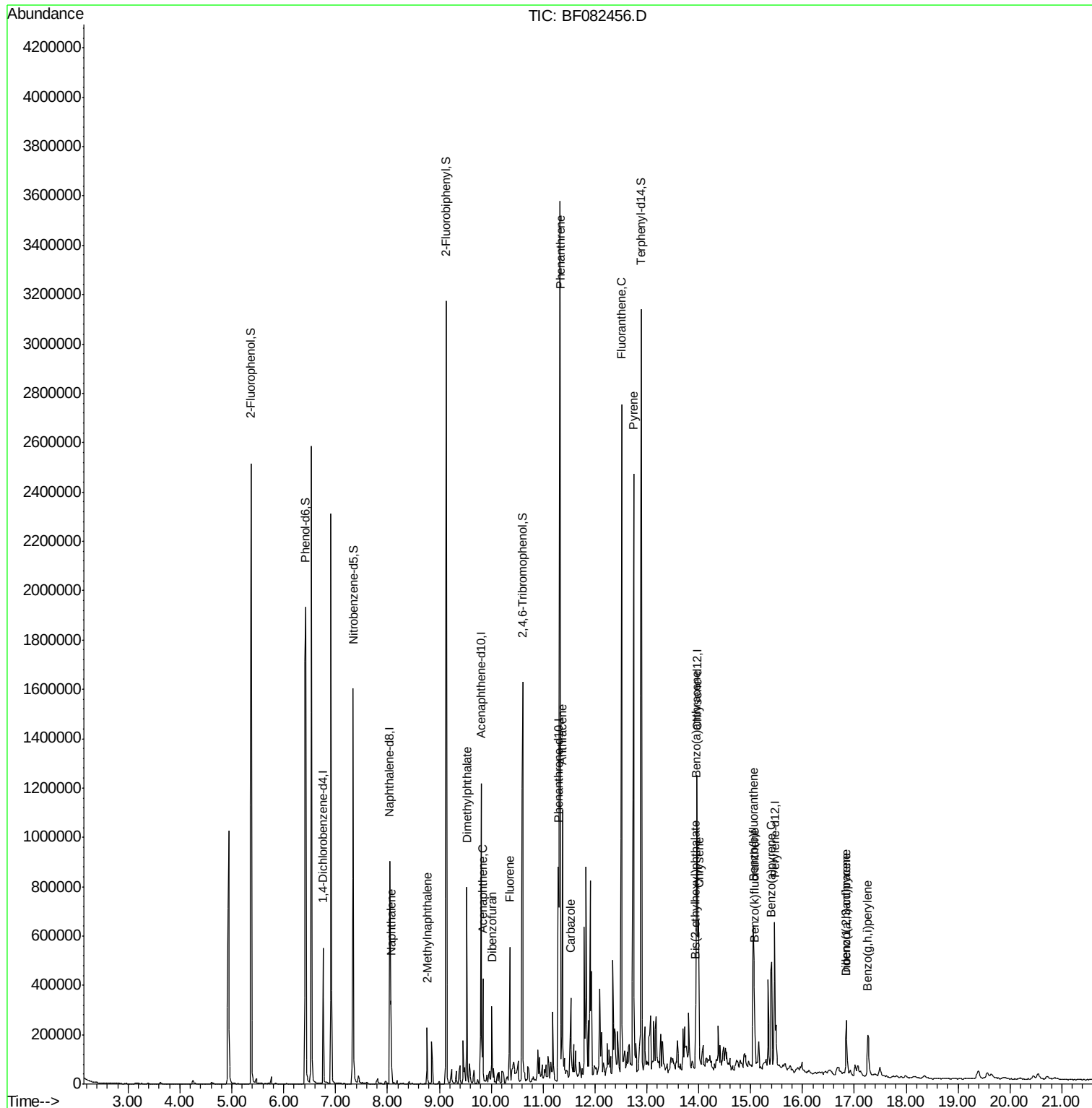
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102215\
Data File : BF082456.D
Acq On : 22 Oct 2015 20:32
Operator : UM/IZ
Sample : G4087-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

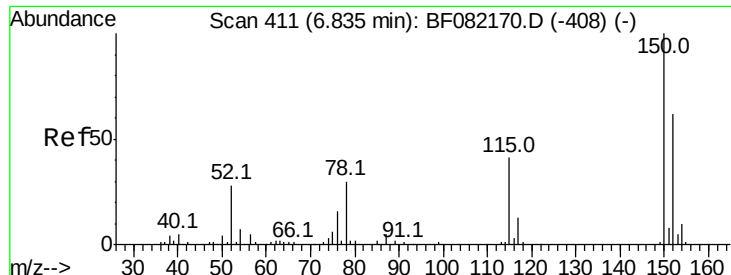
Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

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Quant Time: Oct 23 03:39:34 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 23 01:26:32 2015
Response via : Initial Calibration





#1

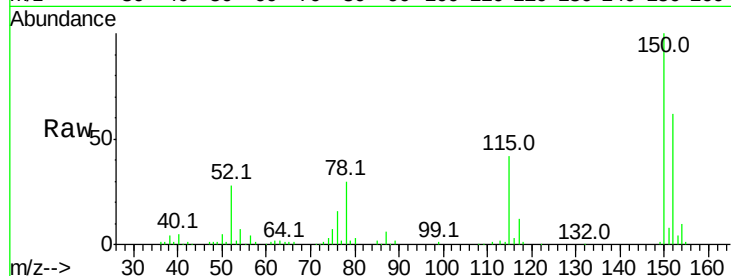
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.75 min Scan# 404
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.6	129.0	193.4
115	67.7	52.1	78.1

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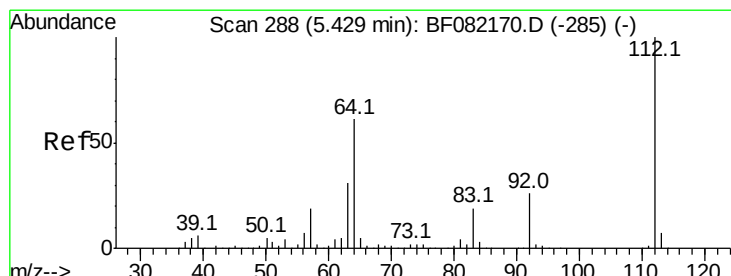
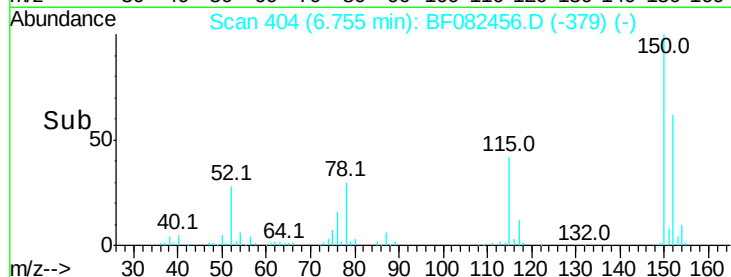
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

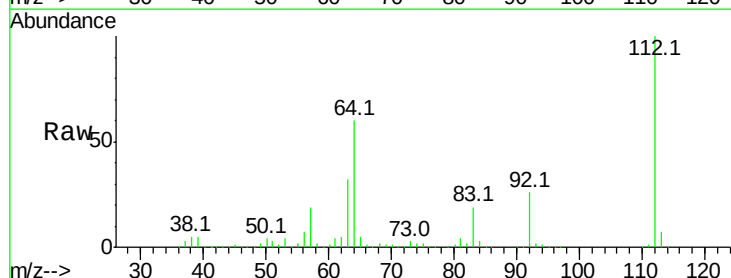
Time-->



#5

2-Fluorophenol
Concen: 138.04 ng
RT: 5.37 min Scan# 283
Delta R.T. 0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.2	48.6	73.0
63	32.3	25.1	37.7



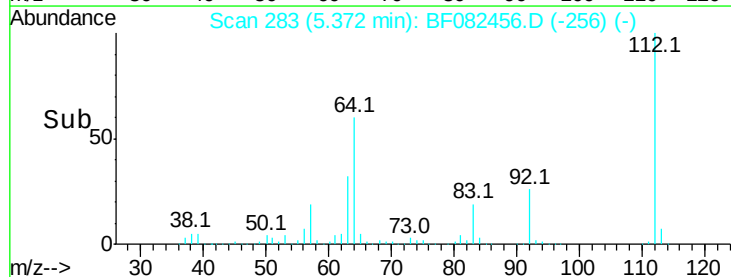
Abundance

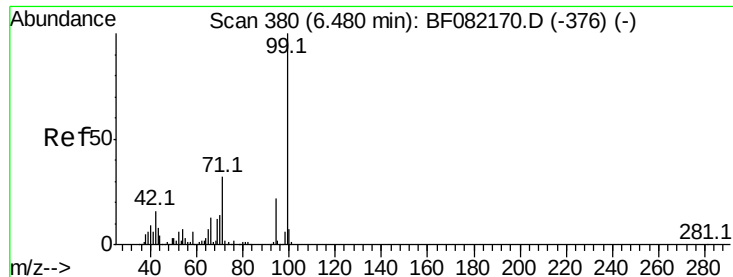
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Time-->





#7

Phenol-d6

Concen: 143.16 ng

RT: 6.42 min Scan# 375

Delta R.T. 0.00 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Instrument :

BNA_F

ClientSampleId :

SB15-03-16-16.5

Tot Ion: 99 Resp: 1059147

Ion Ratio Lower Upper

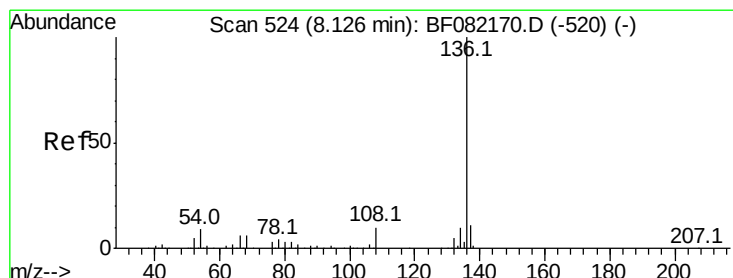
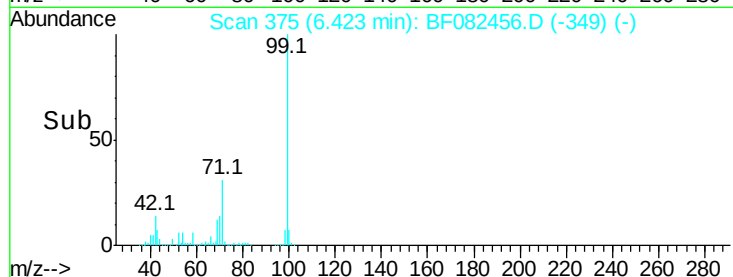
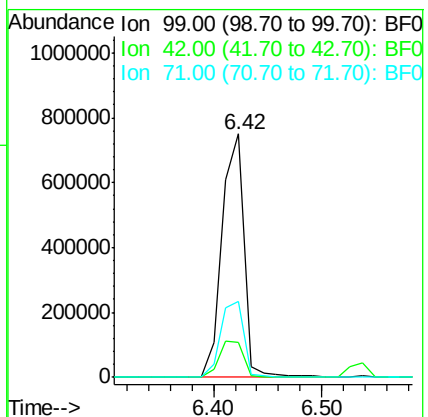
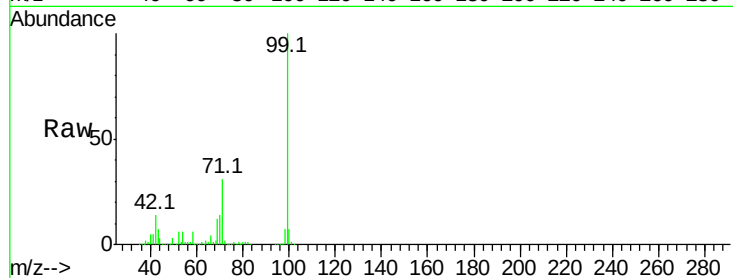
99 100

42 14.2 13.2 19.8

71 31.3 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 517

Delta R.T. -0.01 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Tgt Ion: 136 Resp: 449341

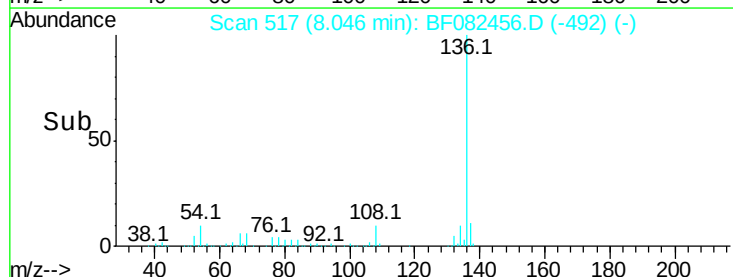
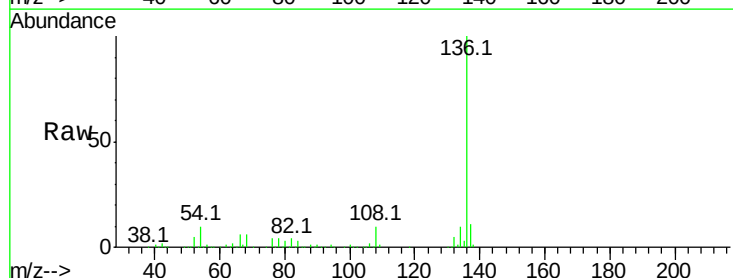
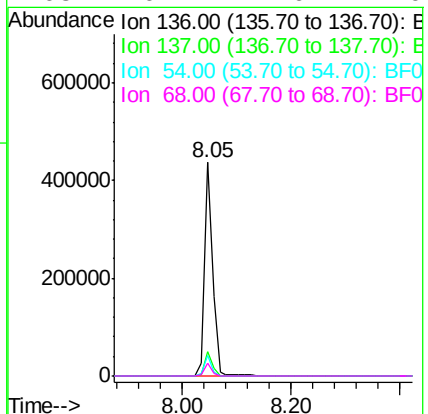
Ion Ratio Lower Upper

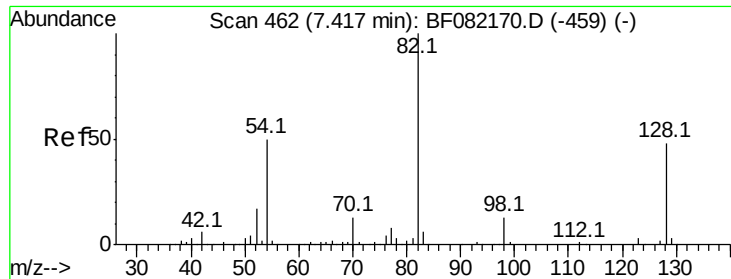
136 100

137 11.4 9.0 13.6

54 9.5 7.5 11.3

68 6.1 4.6 7.0





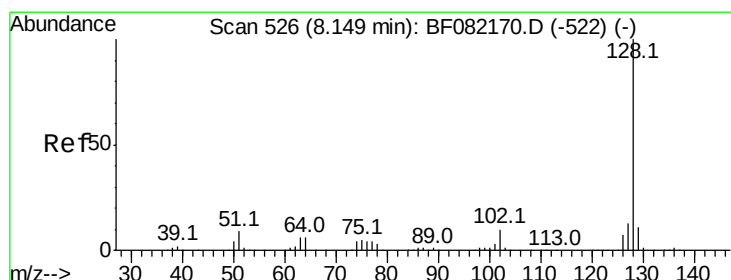
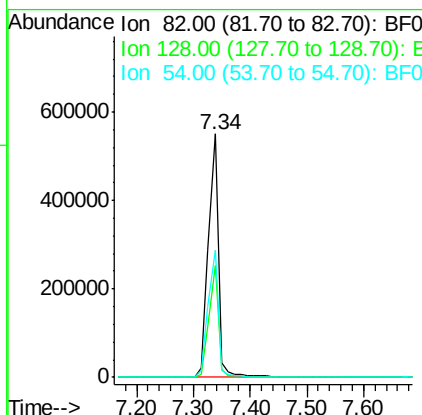
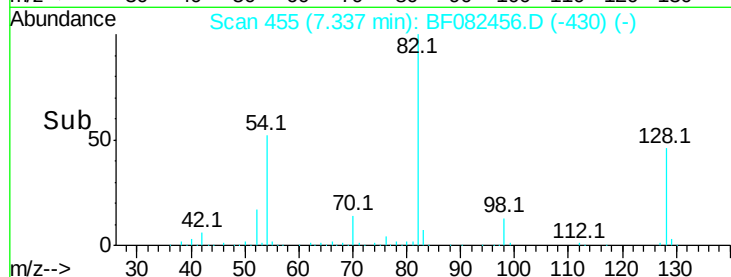
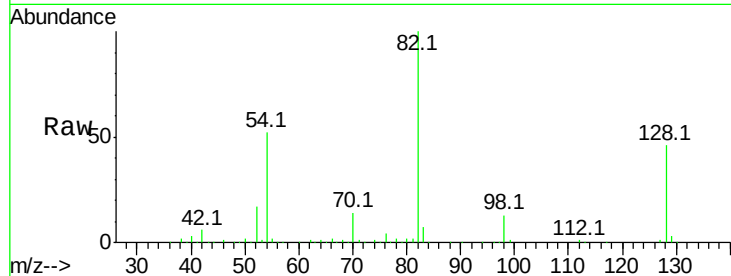
#23
 Nitrobenzene-d5
 Concen: 96.80 ng
 RT: 7.34 min Scan# 455
 Delta R.T. -0.01 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Instrument :
 BNA_F
 ClientSampleId :
 SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.7	58.1
54	52.0	40.1	60.1

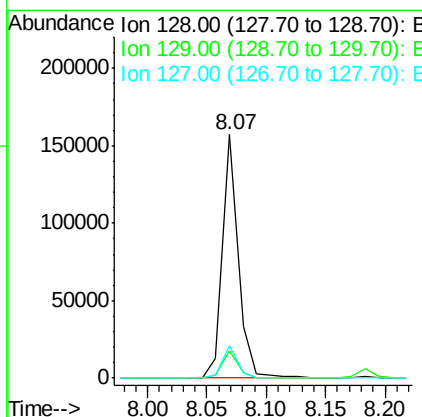
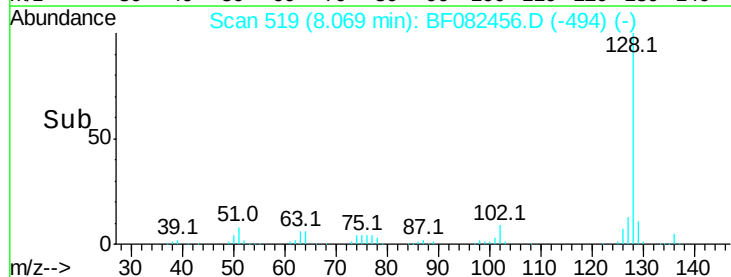
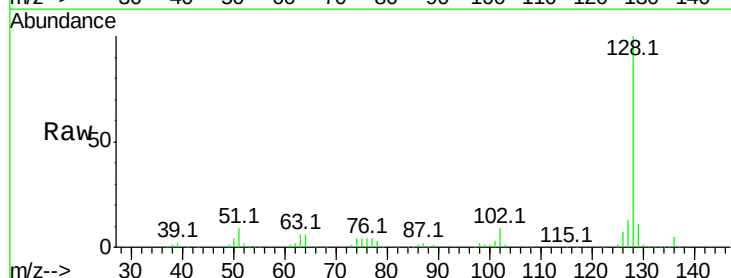
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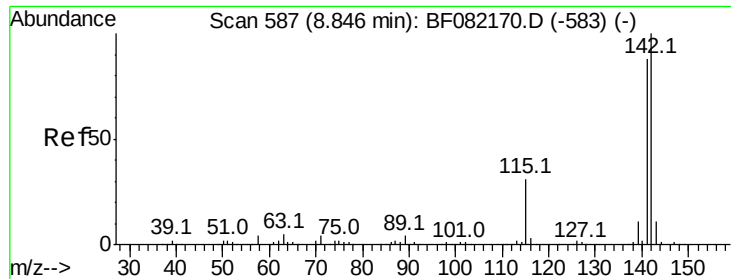
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#31
 Naphthalene
 Concen: 7.45 ng
 RT: 8.07 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.2	10.7	16.1





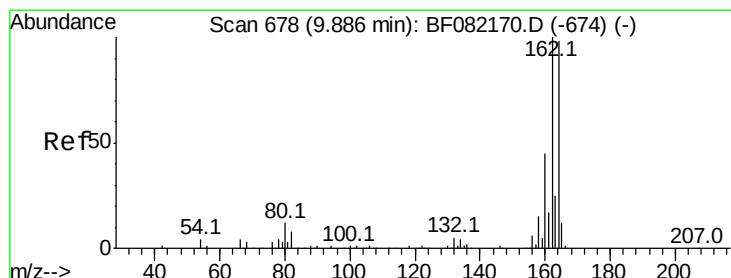
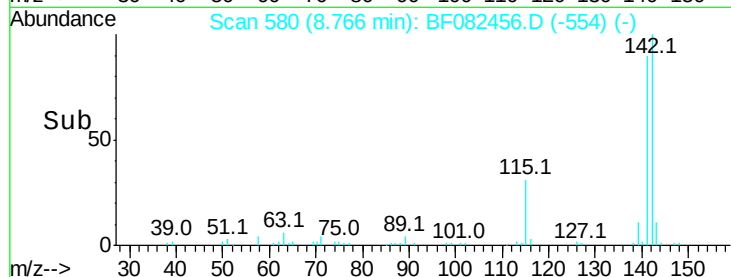
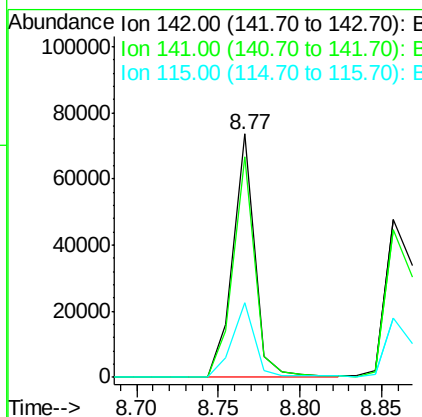
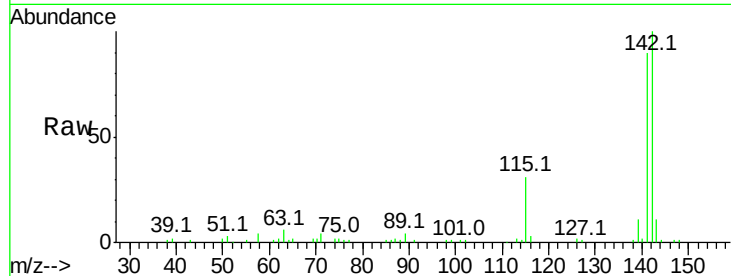
#37
2-Methylnaphthalene
Concen: 5.06 ng
RT: 8.77 min Scan# 580
Delta R.T. 0.00 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.5	70.4	105.6
115	30.9	24.6	37.0

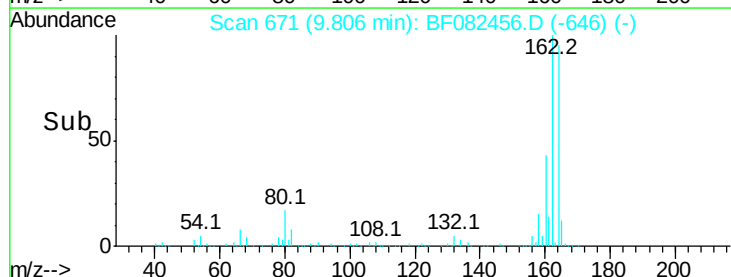
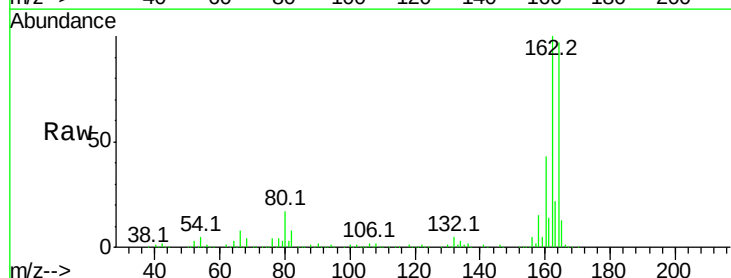
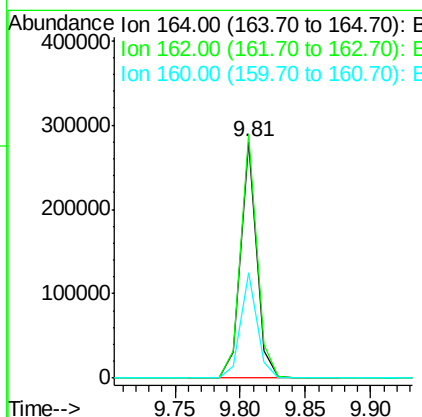
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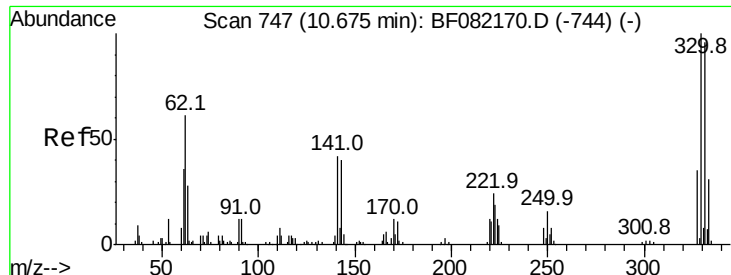
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.81 min Scan# 671
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.6	122.4
160	44.6	36.4	54.6





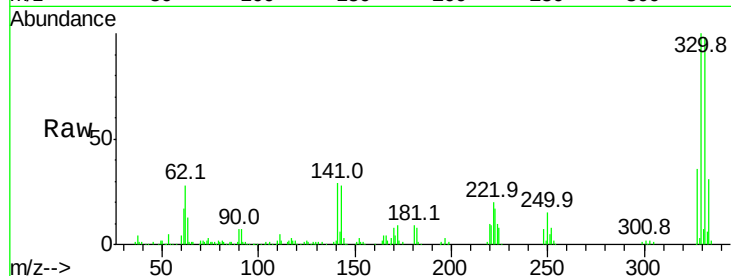
#41
 2,4,6-Tribromophenol
 Concen: 105.10 ng
 RT: 10.61 min Scan# 741
 Delta R.T. 0.00 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Instrument :
 BNA_F
 ClientSampleId :
 SB15-03-16-16.5

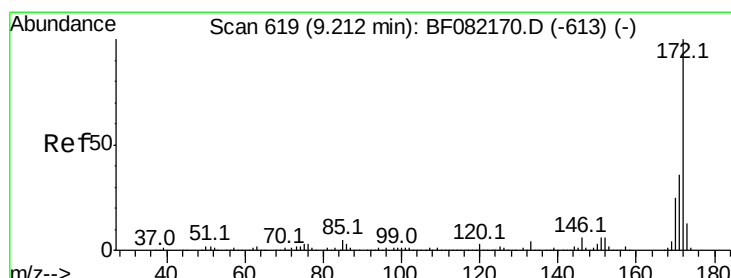
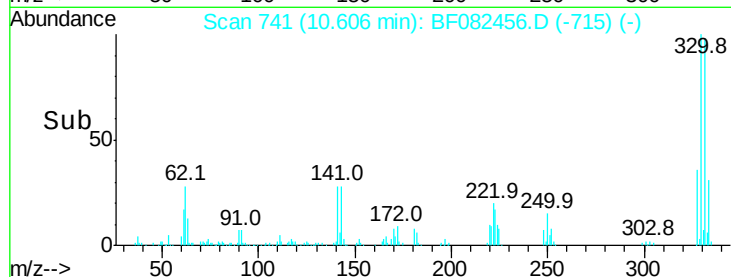
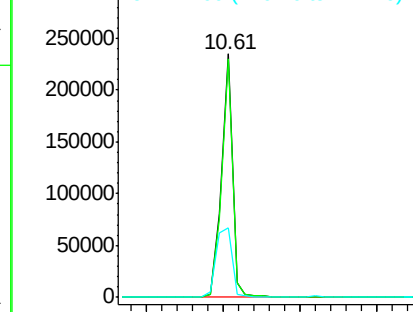
Tot Ion	Ratio	Resp	Lower	Upper
330	100	235243		
332	97.4	77.1	115.7	
141	41.6	29.8	44.8	

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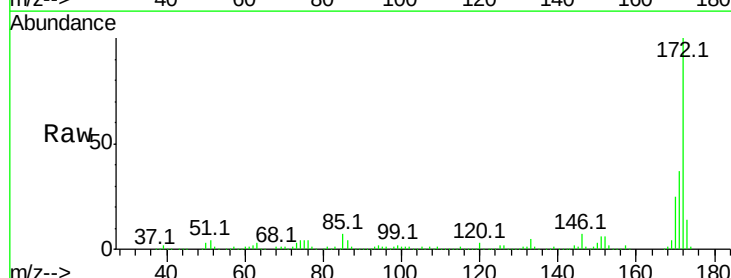


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

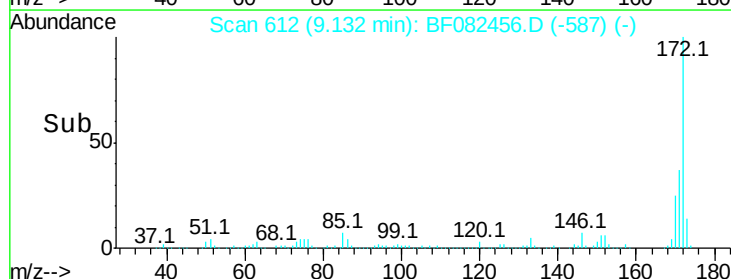
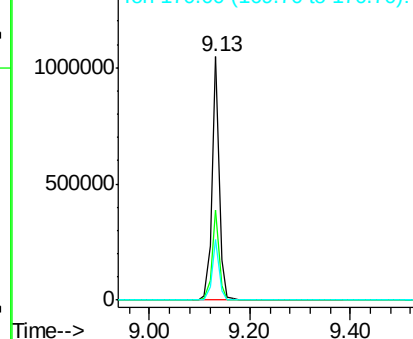


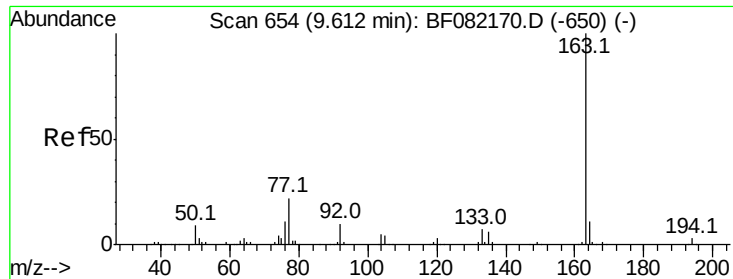
#44
 2-Fluorobiphenyl
 Concen: 71.96 ng
 RT: 9.13 min Scan# 612
 Delta R.T. -0.01 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1035672		
171	36.8	28.6	42.8	
170	24.9	19.7	29.5	



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





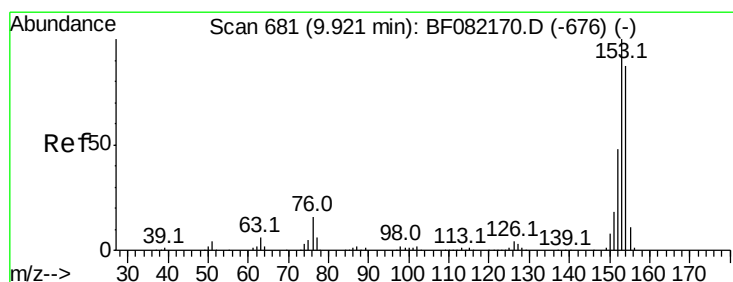
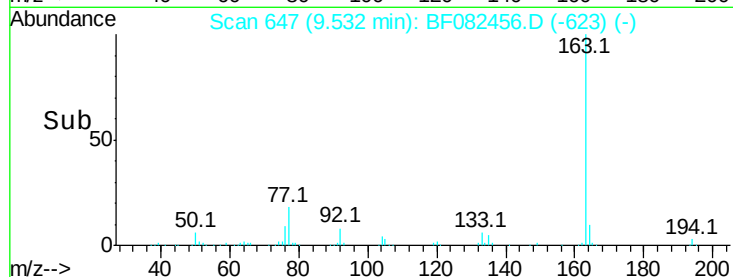
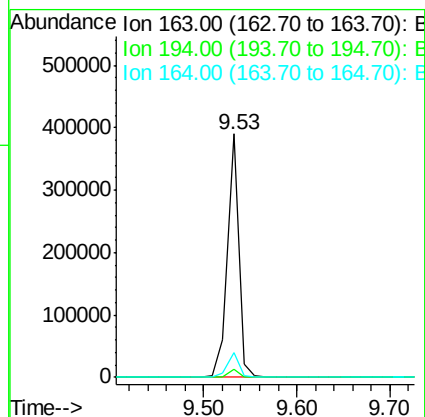
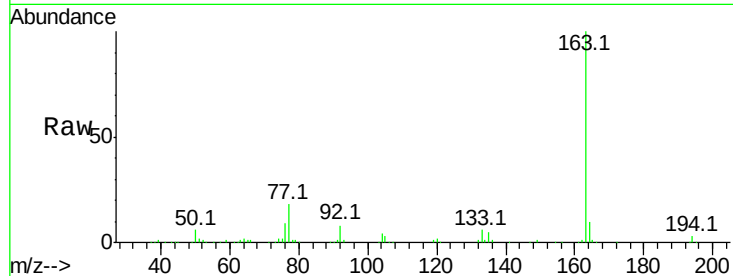
#49
Dimethylphthalate
Concen: 19.61 ng
RT: 9.53 min Scan# 647
Delta R.T. -0.02 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	3.4	2.6	4.0
164	10.4	8.5	12.7

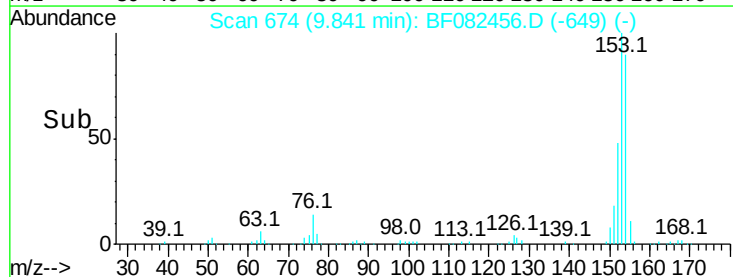
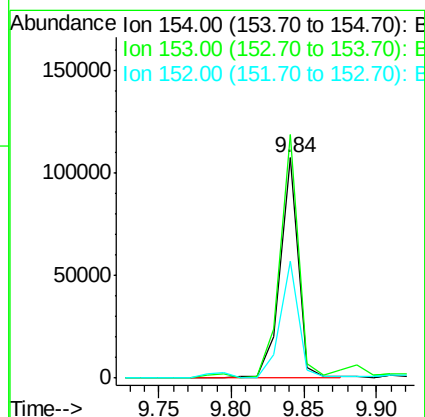
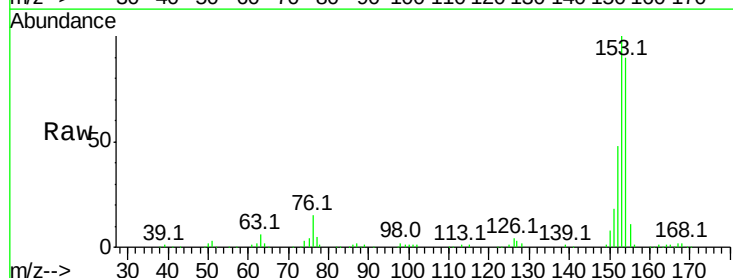
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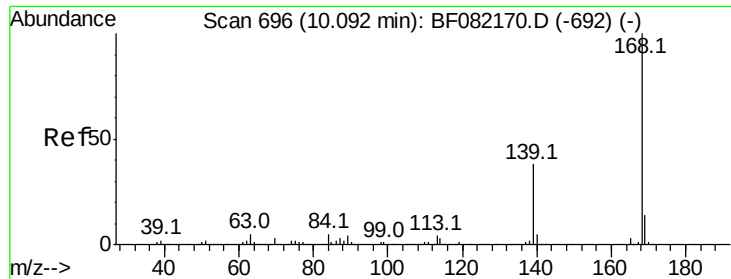
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#51
Acenaphthene
Concen: 6.97 ng
RT: 9.84 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	110.5	91.4	137.2
152	53.1	44.3	66.5





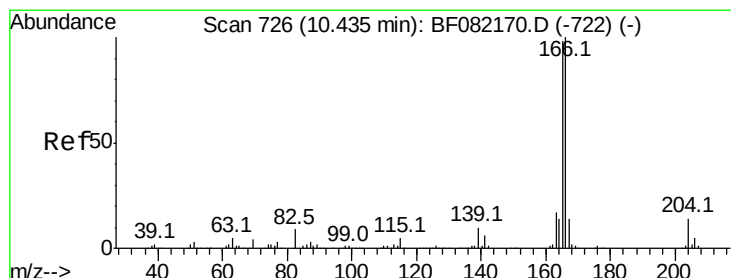
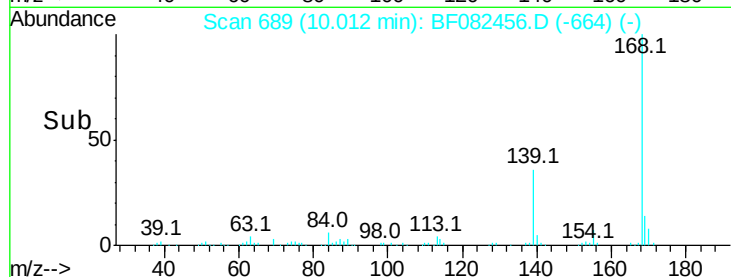
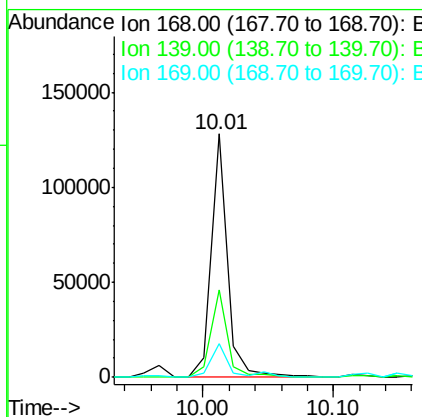
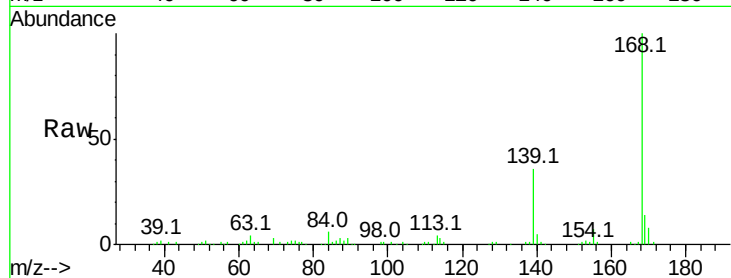
#54
Dibenzofuran
Concen: 6.00 ng
RT: 10.01 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.8	31.0	46.6
169	14.1	10.9	16.3

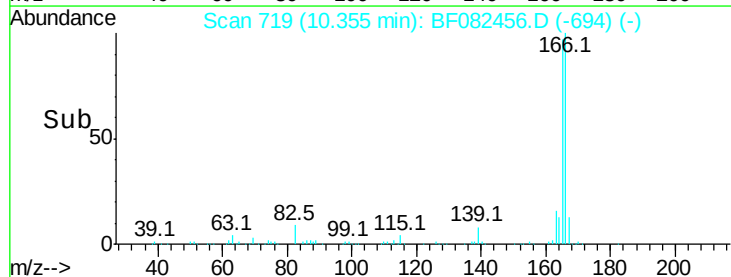
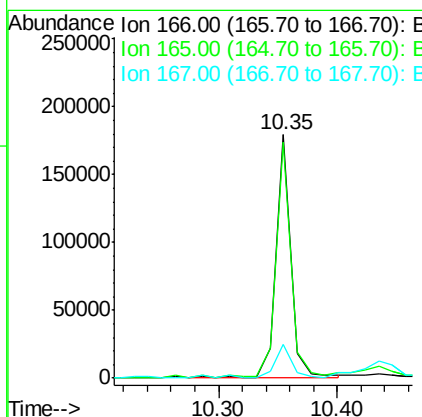
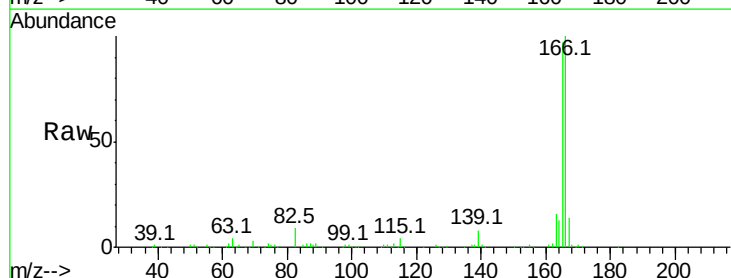
Manual Integrations
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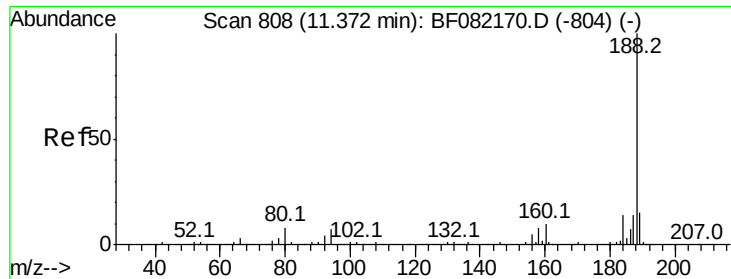
mmdadoda
10/23/2015 4:45:16 PM



#57
Fluorene
Concen: 10.43 ng
RT: 10.35 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.9	78.3	117.5
167	13.9	10.8	16.2





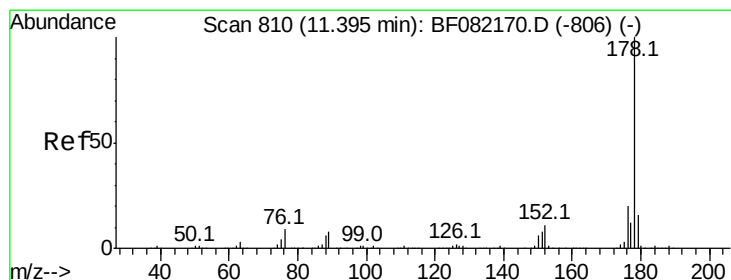
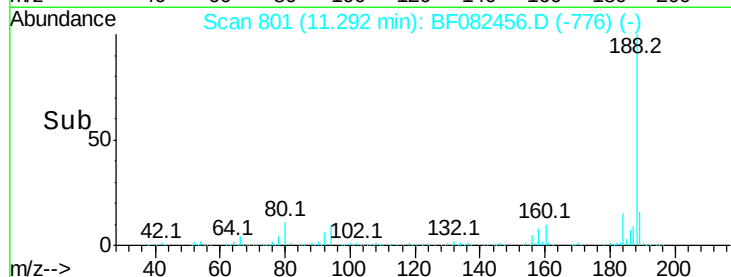
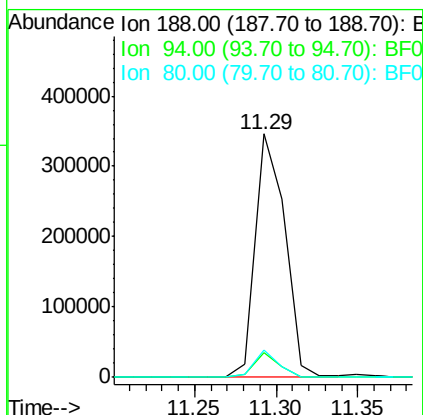
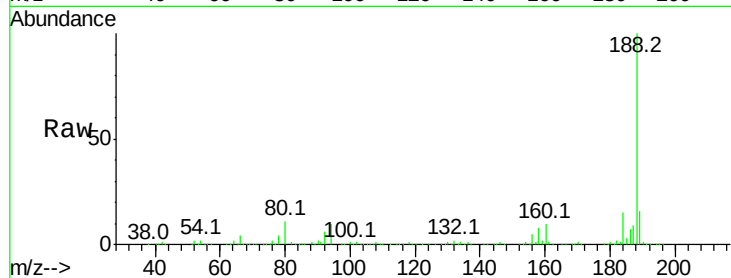
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.0	5.8	8.6#	
80	11.2	6.4	9.6#	

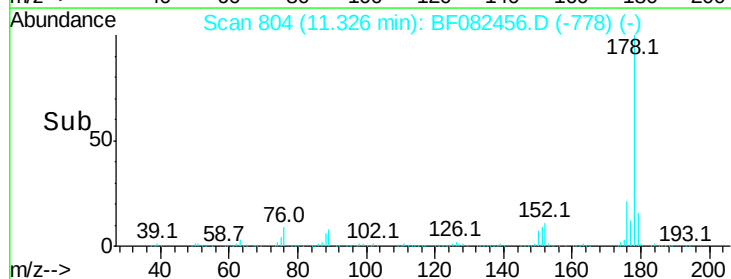
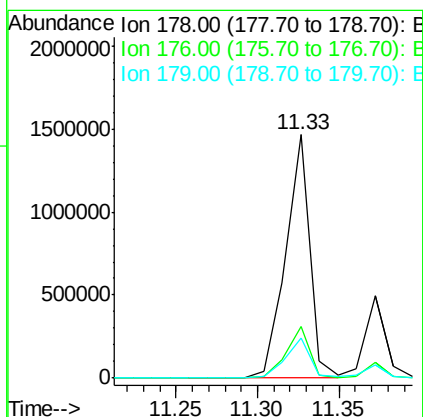
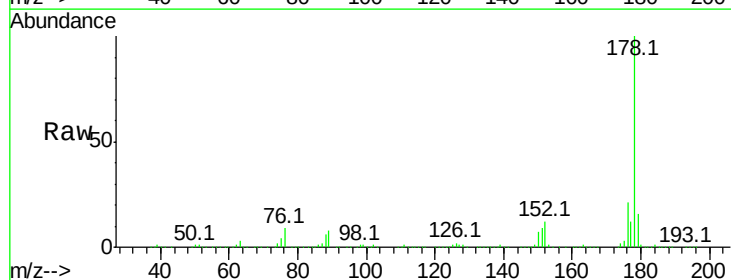
Manual Integrations
APPROVED

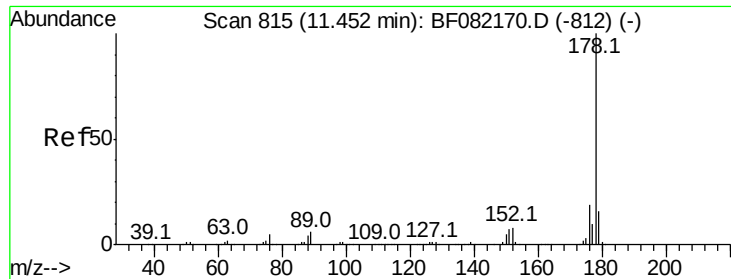
mmdadoda
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#70
Phenanthrene
Concen: 70.19 ng
RT: 11.33 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	21.2	16.0	24.0	
179	16.5	12.6	19.0	





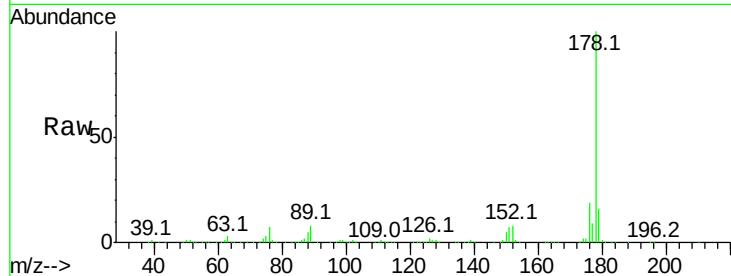
#71
 Anthracene
 Concen: 20.44 ng
 RT: 11.37 min Scan# 808
 Delta R.T. -0.01 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Instrument :
 BNA_F
 ClientSampleId :
 SB15-03-16-16.5

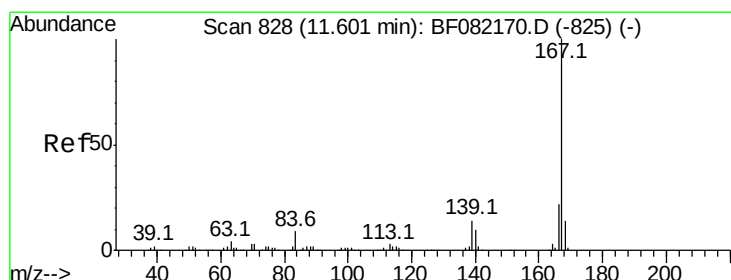
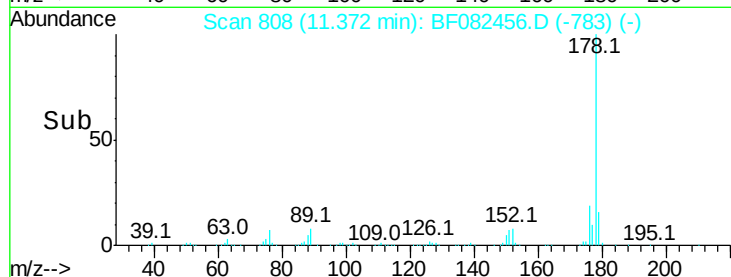
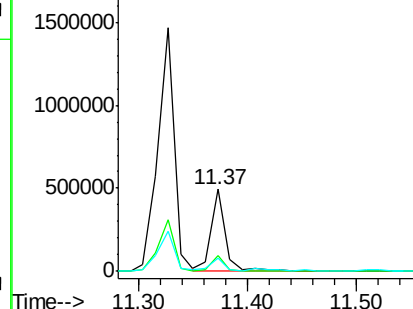
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.0
179	16.0	12.5	18.7

Manual Integrations
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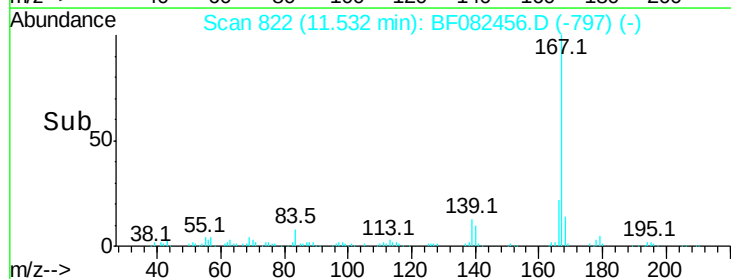
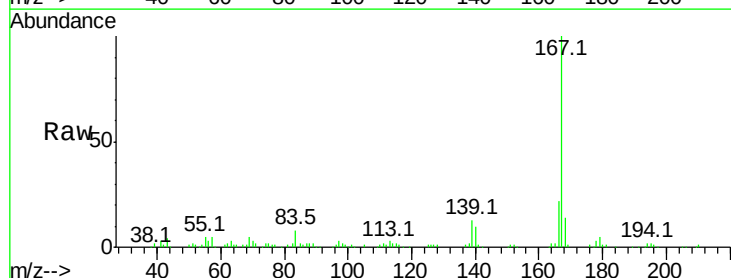
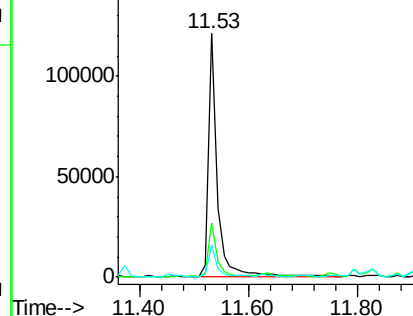
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

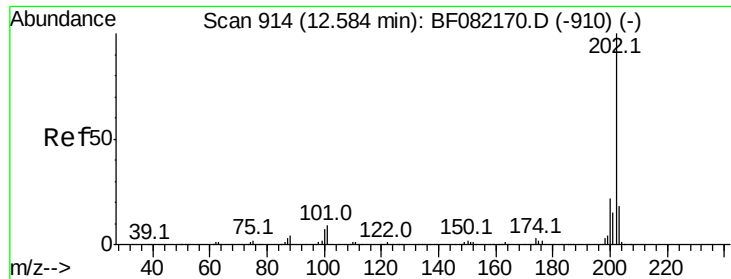


#72
 Carbazole
 Concen: 6.78 ng
 RT: 11.53 min Scan# 822
 Delta R.T. -0.01 min
 Lab File: BF082456.D
 Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.3	25.9
139	13.2	11.2	16.8

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 50.28 ng

RT: 12.52 min Scan# 908

Delta R.T. 0.00 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Instrument :

BNA_F

ClientSampleId :

SB15-03-16-16.5

Tot Ion:202 Resp: 1163735

Ion Ratio Lower Upper

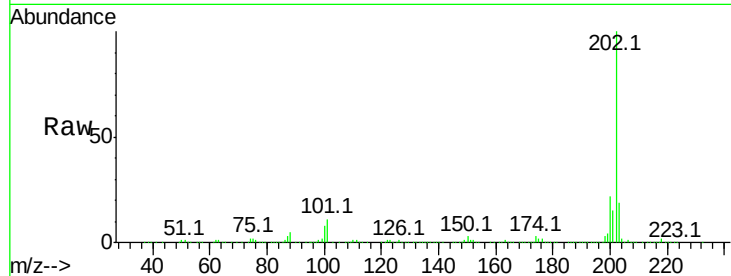
202 100

101 10.6 0.0 29.3

203 18.7 0.0 37.8

Manual Integrations
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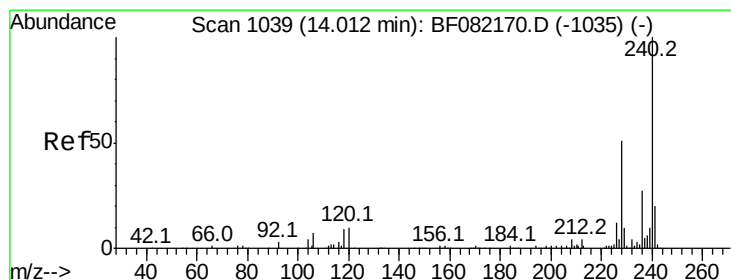
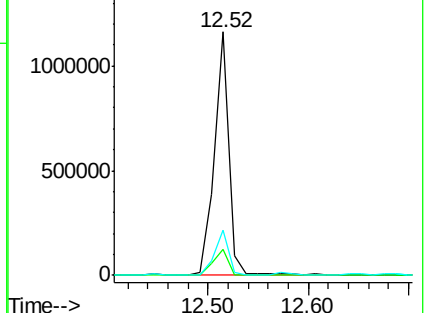
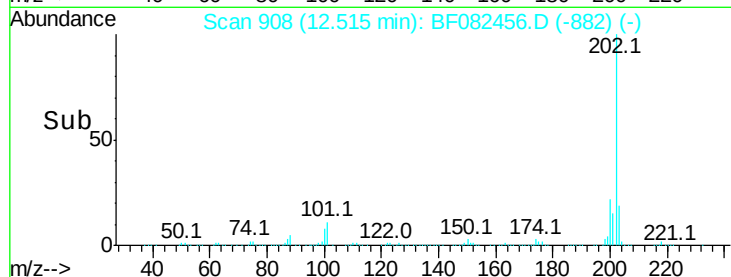
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1035

Delta R.T. -0.03 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

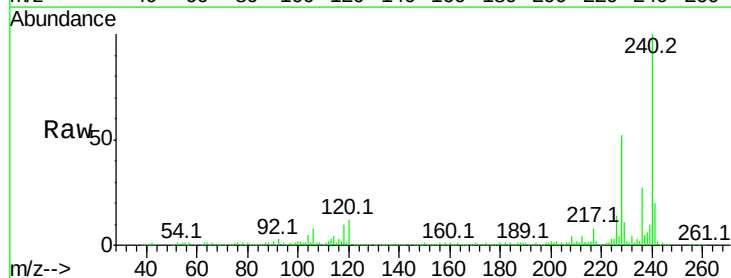
Tgt Ion:240 Resp: 315002

Ion Ratio Lower Upper

240 100

120 11.6 8.1 12.1

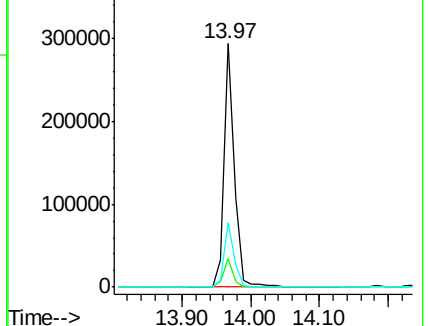
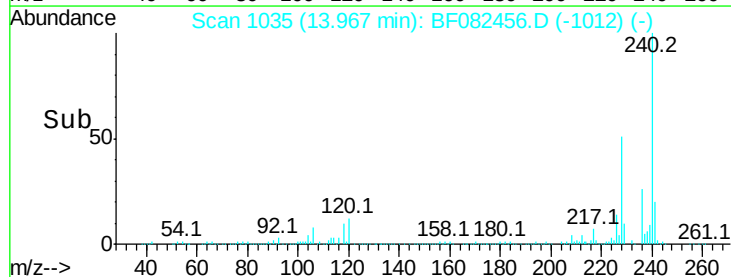
236 26.7 21.3 31.9

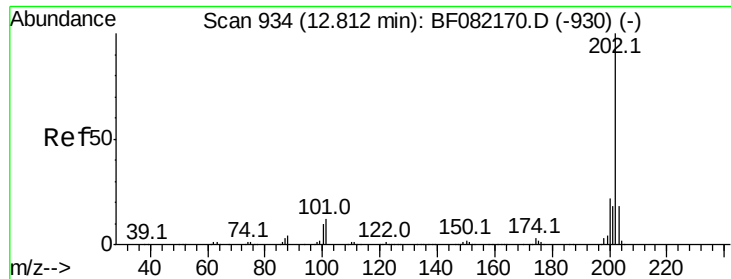


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 59.24 ng

RT: 12.74 min Scan# 928

Delta R.T. 0.00 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Instrument :

BNA_F

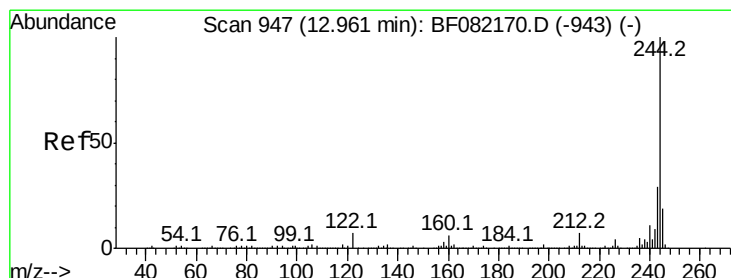
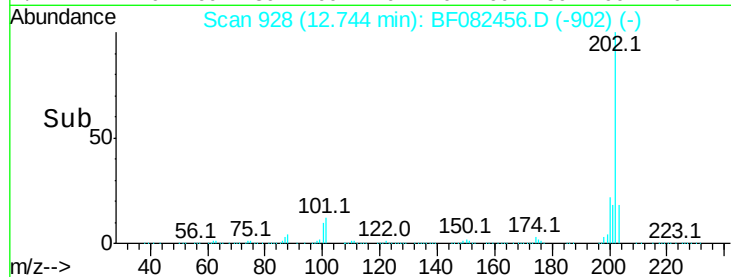
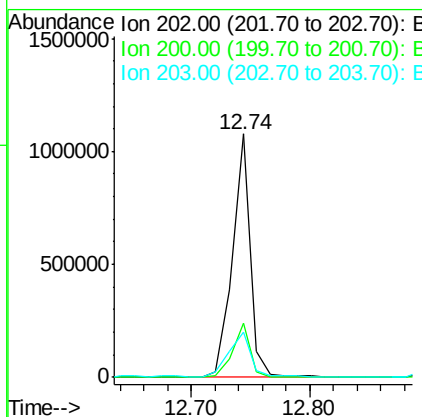
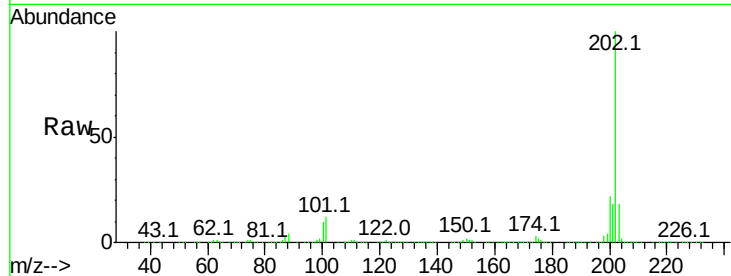
ClientSampleId :

SB15-03-16-16.5

Tot Ion:	202	Resp:	1107503
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.9	26.9
203	18.4	14.5	21.7

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#78

Terphenyl-d14

Concen: 92.44 ng

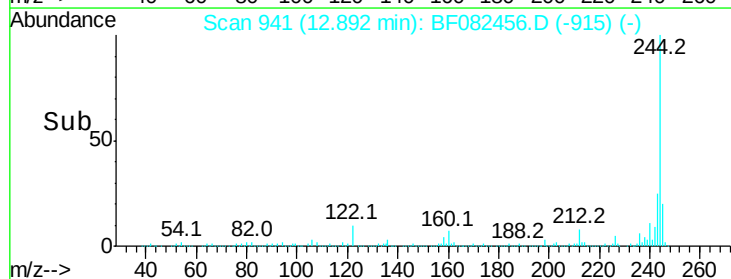
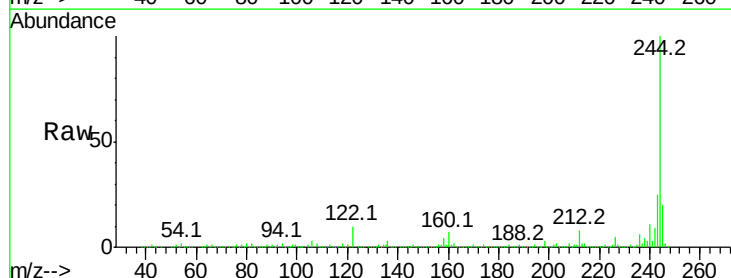
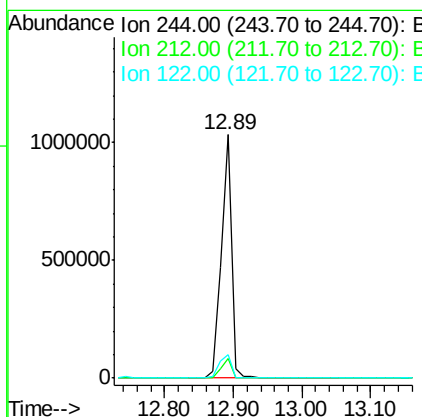
RT: 12.89 min Scan# 941

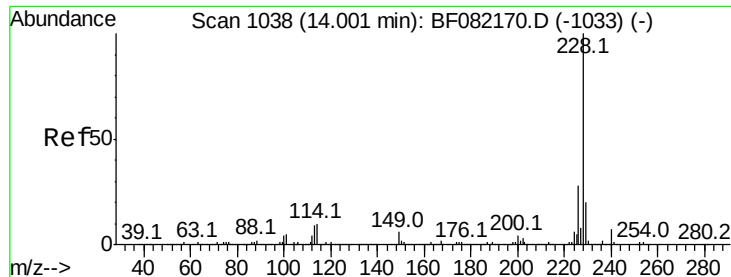
Delta R.T. 0.00 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Tgt Ion:	244	Resp:	1098858
Ion Ratio	Lower	Upper	
244	100		
212	8.0	5.8	8.6
122	9.7	5.9	8.9#





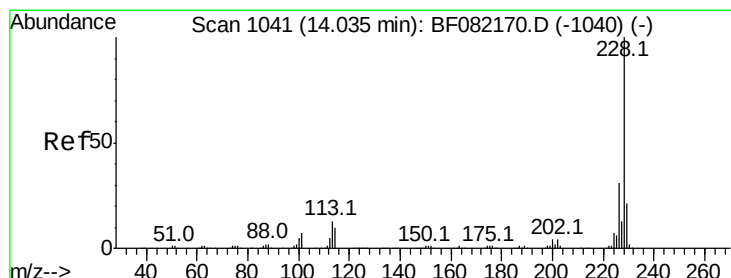
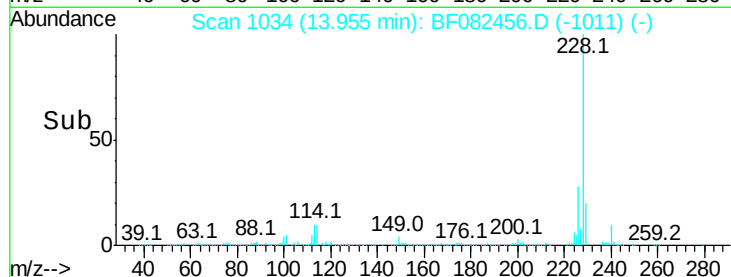
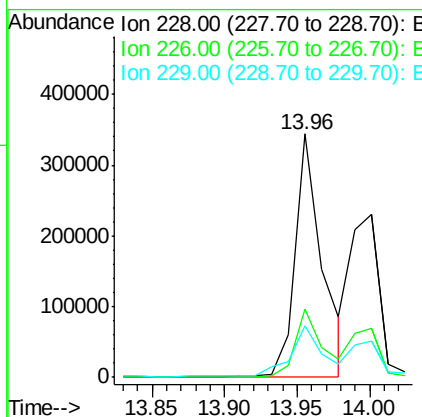
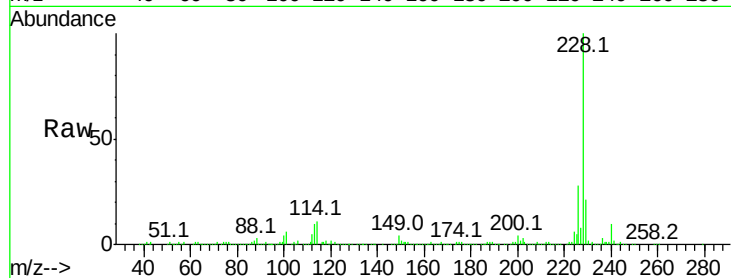
#80
Benzo(a)anthracene
Concen: 27.04 ng
RT: 13.96 min Scan# 1034
Delta R.T. -0.03 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.3	33.5
229	21.0	16.2	24.2

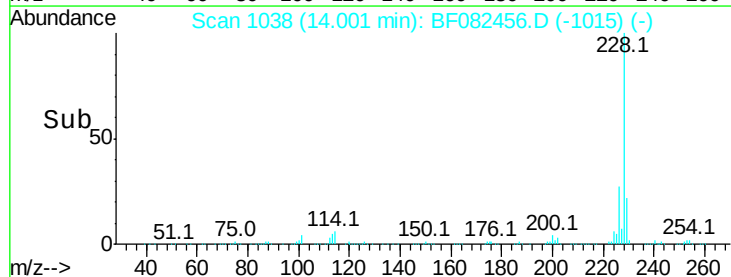
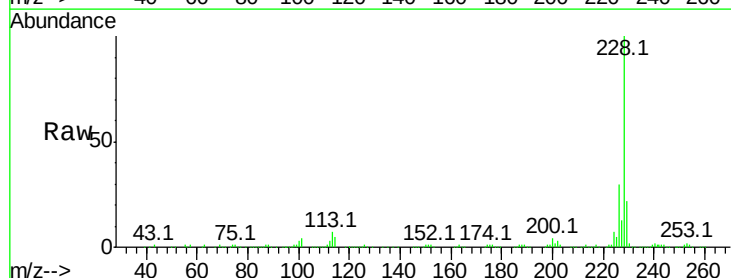
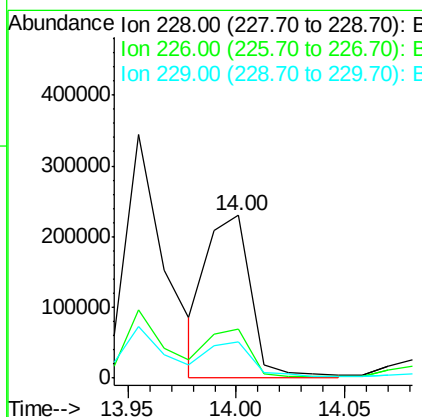
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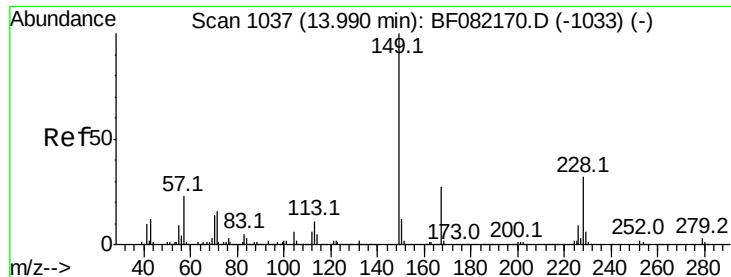
mmdadoda
10/23/2015 4:45:16 PM



#82
Chrysene
Concen: 18.52 ng
RT: 14.00 min Scan# 1038
Delta R.T. -0.03 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	22.0	16.3	24.5





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.26 ng

RT: 13.94 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Instrument :

BNA_F

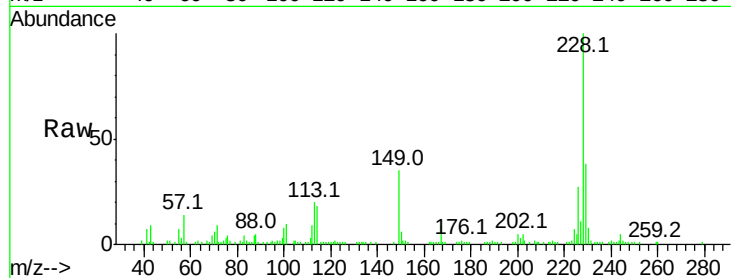
ClientSampleId :

SB15-03-16-16.5

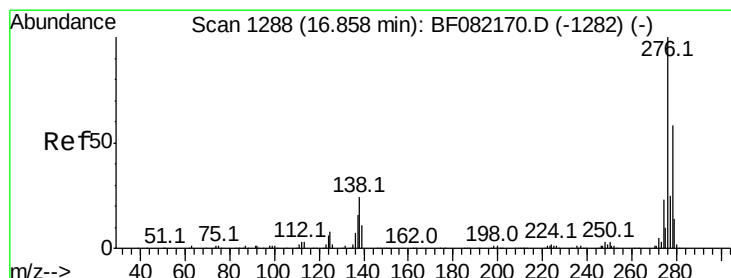
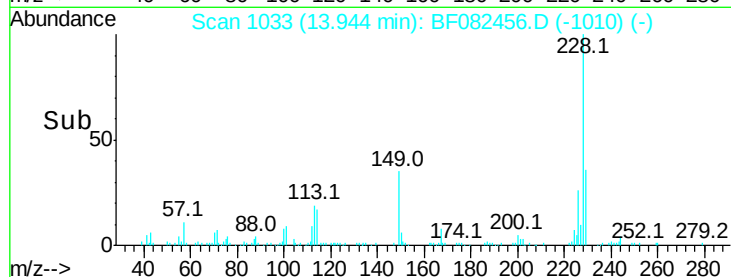
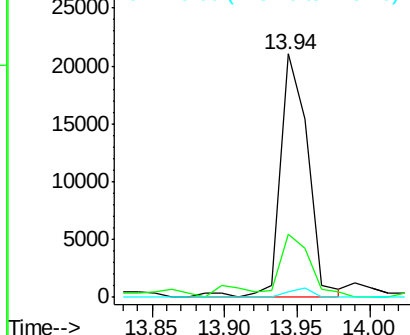
Tot Ion:	149	Resp:	27494
Ion Ratio	Lower	Upper	
149	100		
167	25.7	21.3	31.9
279	2.3	2.6	4.0#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.27 ng

RT: 16.85 min Scan# 1287

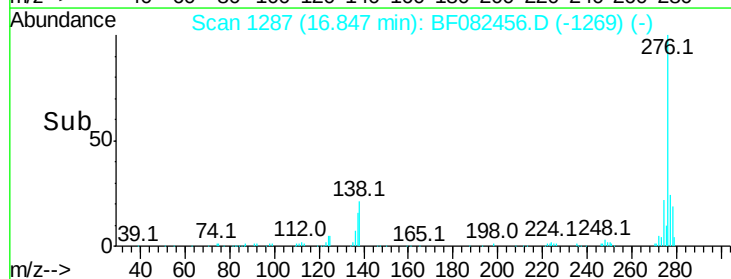
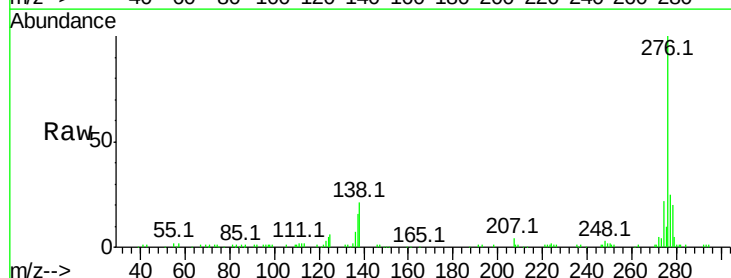
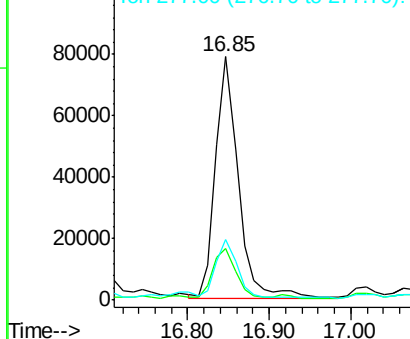
Delta R.T. -0.09 min

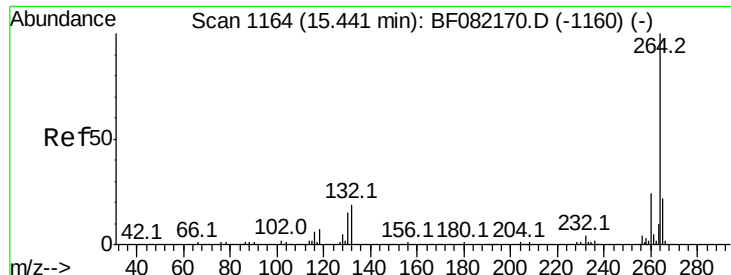
Lab File: BF082456.D

Acq: 22 Oct 2015 20:32

Tgt Ion:	276	Resp:	154650
Ion Ratio	Lower	Upper	
276	100		
138	22.9	19.7	29.5
277	25.4	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





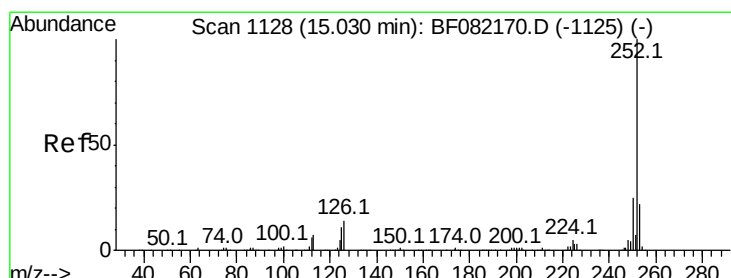
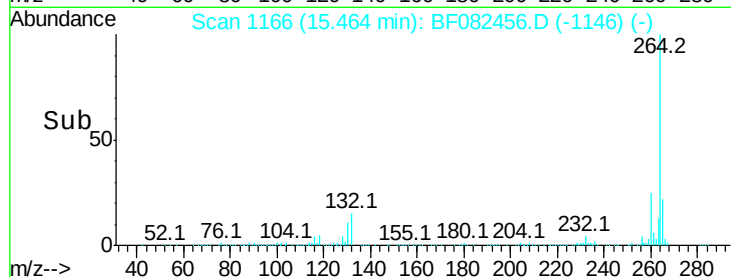
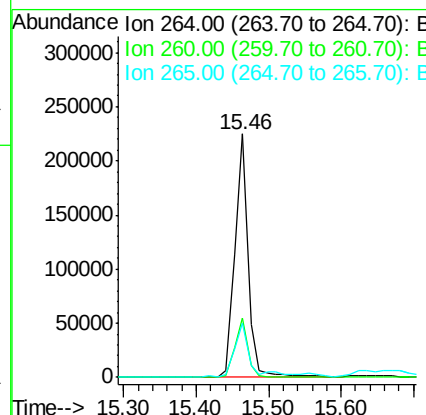
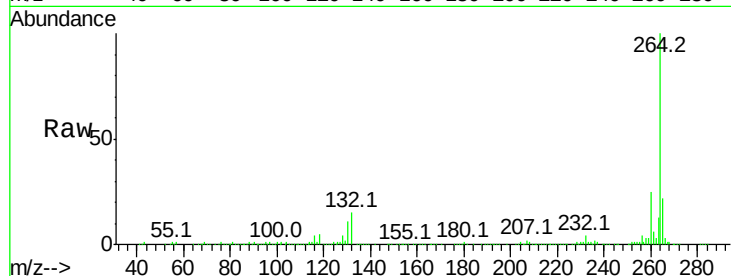
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.46 min Scan# 1166
Delta R.T. -0.07 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.6	19.0	28.6	
265	22.2	17.3	25.9	

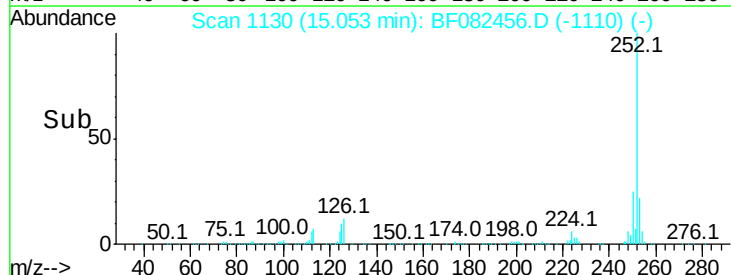
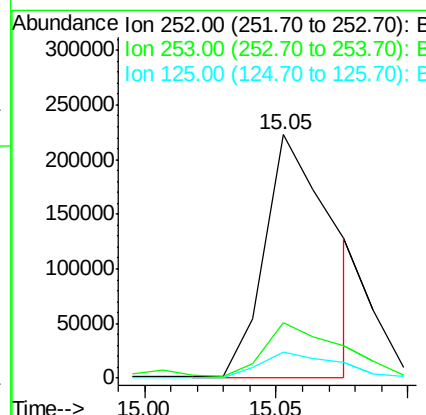
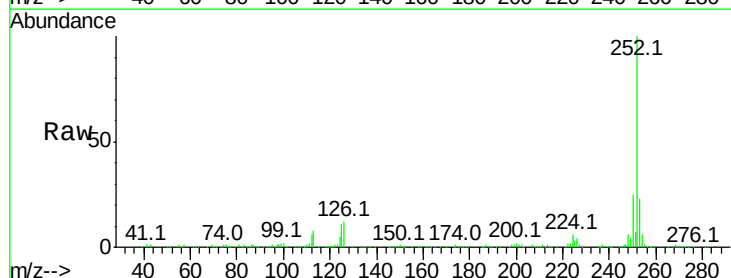
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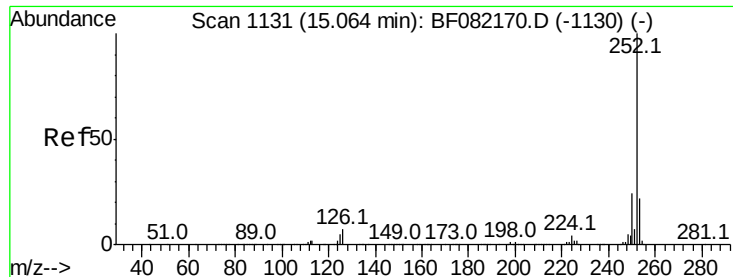
mmdadoda
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#87
Benzo(b)fluoranthene
Concen: 22.86 ng m
RT: 15.05 min Scan# 1130
Delta R.T. -0.07 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.6	18.0	27.0	
125	10.6	8.6	12.8	





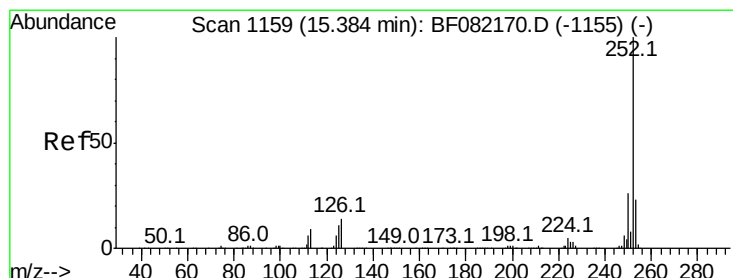
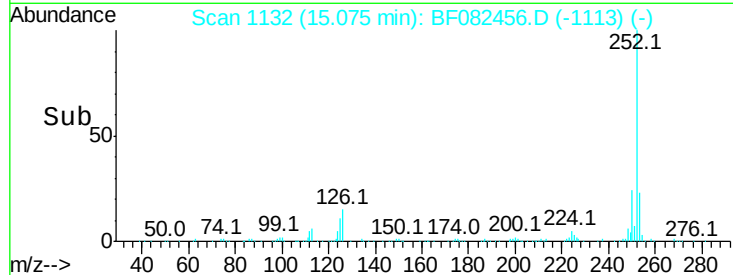
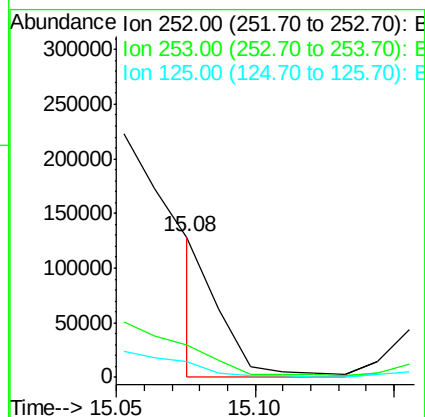
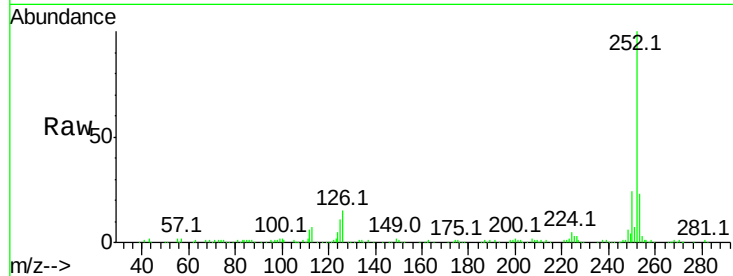
#88
Benzo(k)fluoranthene
Concen: 3.96 ng m
RT: 15.08 min Scan# 1132
Delta R.T. -0.08 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Resp	Lower	Upper
252	100	57807		
253	23.1	17.8	26.6	
125	11.1	6.7	10.1	

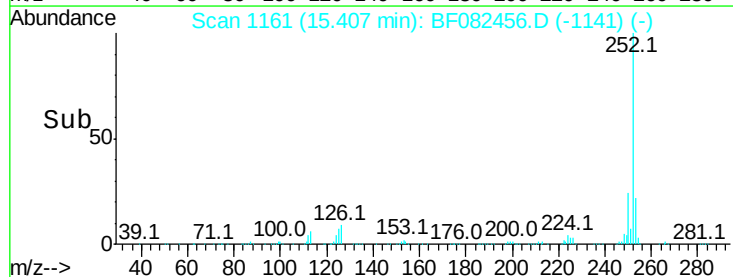
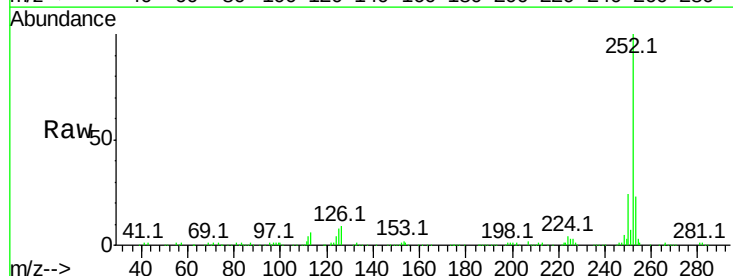
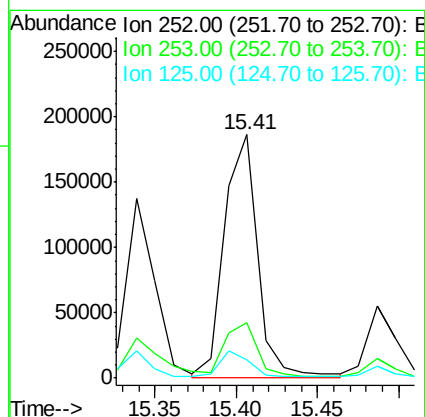
Manual Integrations
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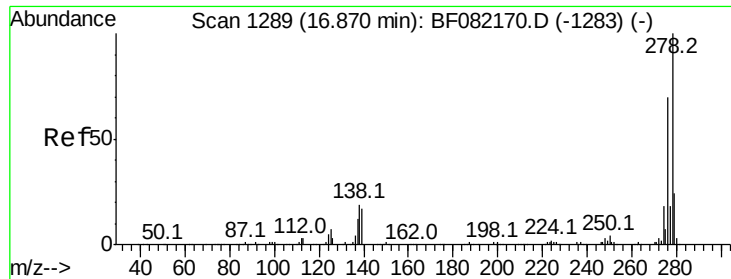
mmdadoda
10/23/2015 4:45:16 PM



#89
Benzo(a)pyrene
Concen: 18.19 ng m
RT: 15.41 min Scan# 1161
Delta R.T. -0.07 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	271702		
253	22.9	18.2	27.2	
125	7.7	8.9	13.3	





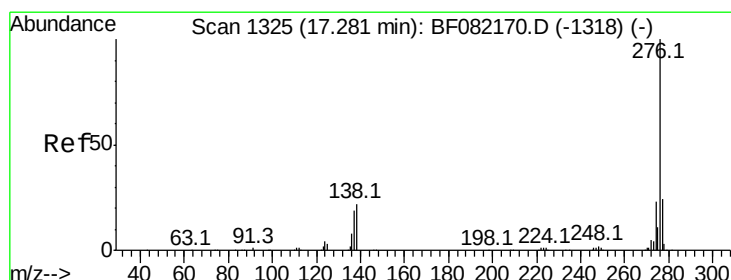
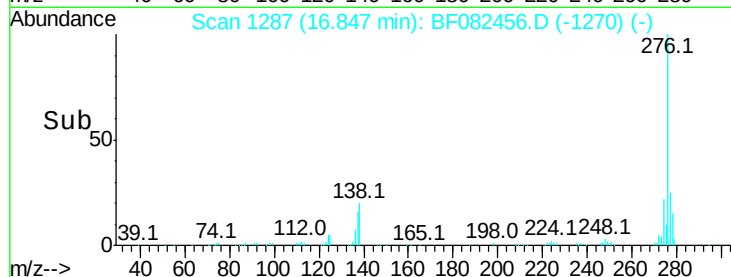
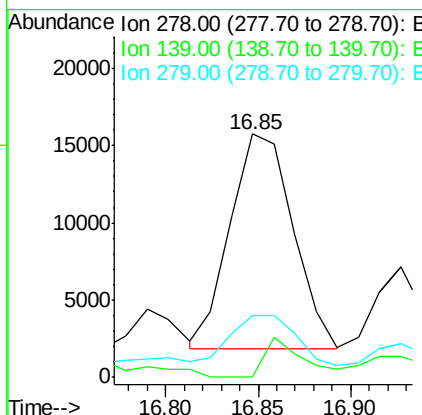
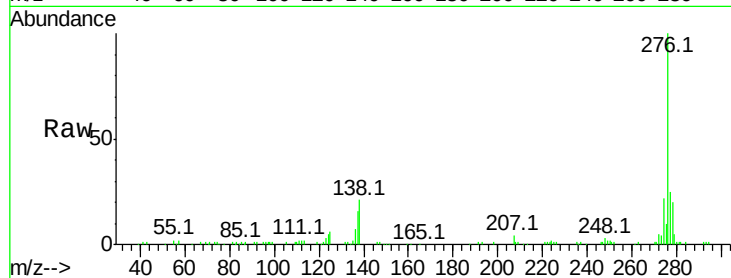
#90
Dibenzo(a,h)anthracene
Concen: 2.70 ng/mL
RT: 16.85 min Scan# 1287
Delta R.T. -0.10 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Instrument :
BNA_F
ClientSampleId :
SB15-03-16-16.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.3	19.9#
279	25.2	18.9	28.3

Manual Integrations
APPROVED

mmdadoda
10/23/2015 4:45:16 PM



#91
Benzo(g,h,i)perylene
Concen: 11.98 ng/mL
RT: 17.26 min Scan# 1323
Delta R.T. -0.09 min
Lab File: BF082456.D
Acq: 22 Oct 2015 20:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.8	28.2
138	24.0	17.4	26.2

